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DATE MAILED: 06/14/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/615,121	07/08/2003	Harvey Cline	130974-1/YOD GERD:0047	9087
75	90 06/14/2004		EXAM	INER
Patrick S. You	ler		ARANA, I	OUIS M
Fletcher, Yoder	& Van Someren			
P.O. Box 69228	39		ART UNIT	PAPER NUMBER
Houston, TX	77269-2289		2859	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	-
	10/615,121	CLINE ET AL.	en 🖹
Office Action Summary	Examiner	Art Unit	
	Louis M. Arana	2859	
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with t	he correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute.  Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply of the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed ) days will be considered time from the mailing date of this ONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	s action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under a condition.	•		e merits is
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-44 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) 1-13 and 36-44 is/are allowed.</li> <li>6)  Claim(s) 14 and 25 is/are rejected.</li> <li>7)  Claim(s) 15-24 and 26-35 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/o</li> </ul>	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 08 July 2003 is/are: a	)⊠ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applority documents have been rec nu (PCT Rule 17.2(a)).	ication No eived in this Nationa	l Stage
Attachment(s)	" <del>–</del>		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	nary (PTO-413) ail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>7/8/03</u>.</li> </ol>	) 5) Notice of Inforr 6) Other:	nal Patent Application (PT	O-152)

F rm PT	O-1449	(modified)		ATTY. DOCKE	T NO.	SERIAL N	<u> </u>
List of Da		N. 1. 1		130974-1/YOD (C		Unassigned	<b>.</b>
For Appli Disclosure	cant's Info			APPLICANT Harvey Cline, et a	1		
(Use seven	ral sheets	if necessary)		FILING DATE Herewith		GROUP Unassigned	
			U.S	. PATENT DOCUM	MENTS		
EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
L.M.A.	A	4,797,615	01/10/1989	Rotem, et al	324	309	
LHA.	В	6,150,973	11/21/2000	Pritt	342	25	

FOREIGN PATENT DOCUMENTS							
EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
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S <sup>2</sup>	
XAMINOR Juna	DATE CONSIDERED 6/04

Information Disclosure Statement-PTO-1449 (Modified)

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 14 and 25 are rejected under 35 U.S.C. 102(a) as being anticipated by Dean et al. P.N. 6,445,182 (Dean).

Dean discloses a method and system for phase unwrapping a 3D Magnetic Resonance image. Applicant's attention is directed to Fig.4 and corresponding description. As shown in the Figure, a phase unwrapped image as that displayed at 214 is obtained by use of phase unwrap component 208. The MRI system uses all the conventional components depicted in Fig. 3. That is, gradient coils 134, RF coils 156 and control circuit 142 and 110. Dean meets all the limitations of the claims at issue.

#### Inventorship

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

## Allowable Subject Matter

- 4. Claims 1-13 and 36-44 are allowed.
- 5. Claims 15-24 and 26-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patch and Bernstein et al. disclose methods for phase unwrapping of MR images. Note the abstract of each disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis M. Arana whose telephone number is (571) 272-2236. The examiner can normally be reached on M-Thurs. Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F Gutierrez can be reached on (703) 308-3875. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Louis M. Arana Primary Examiner Art Unit 2859

lma 6/8/04